

Title (en)
COMBINATION STRUCTURE BETWEEN STATOR AND ROTOR IN A BRUSHLESS MOTOR

Title (de)
KOMBINATIONSTRUKTUR ZWISCHEN STATOR UND ROTOR IN EINEM BÜRSTENLOSEN MOTOR

Title (fr)
STRUCTURE DE COMBINAISON ENTRE STATOR ET ROTOR DANS UN MOTEUR SANS BALAI

Publication
EP 3323187 A1 20180523 (EN)

Application
EP 16825197 A 20160714

Priority
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• US 2016042326 W 20160714

Abstract (en)
[origin: WO2017011682A1] A brushless motor includes a stator having stator core and winding teeth evenly distributed on the stator core; and a rotor rotatably disposed within the stator with the winding teeth facing the rotor, where the rotor has a rotor core and magnets evenly distributed around the rotor core. A first symmetry axis is defined passing through a center of a one of the magnets to a center of the rotor, and a second symmetry axis is defined passing between adjacent magnets to the center of the rotor. A first distance between the outer surface of the rotor to a surface of a winding tooth when the first axis is aligned with the winding tooth is smaller than a second distance between the outer surface of the rotor to the surface of the winding tooth when the second axis is aligned with the winding tooth.

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